

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

**Town of Templeton
Board of Sewer Commissioners
33 Reservoir Road
Baldwinville, MA 01346**

is authorized to discharge from the facility located at

**Templeton Wastewater Treatment Plant
Reservoir Road
Baldwinville, MA**

to receiving water named : **Otter River
Millers River Watershed (Segment MA35-08)**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective sixty (60) days from the date of signature.

This permit and the authorization to discharge expire at midnight, five (5) years from the effective date.

This permit supersedes the permit issued on September 30, 1999.

This permit consists of 15 pages in Part I including effluent limitations, monitoring requirements, Attachments A, B, and 35 pages in Part II including General Conditions and Definitions.

Signed this 28th day of September, 2005

/s/ SIGNATURE ON FILE

Linda M. Murphy, Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA

Director
Division of Watershed Management
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

PART I

A.1. During the period beginning the effective date and lasting until the plant upgrade and design flow reduction or permit expiration, the permittee is authorized to discharge from outfall serial number 001 , treated effluent to the Otter River. Such discharges shall be limited and monitored as specified below.					
<u>EFFLUENT CHARACTERISTIC</u>			<u>MONITORING REQUIREMENTS</u>		
<u>PARAMETER</u>	<u>AVERAGE MONTHLY</u>	<u>AVERAGE WEEKLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE² TYPE</u>
FLOW ³	2.8 MGD	*****	REPORT MGD	CONTINUOUS	RECORDER
FLOW ³	REPORT MGD	*****	REPORT MGD	CONTINUOUS	RECORDER
BOD ₅ ⁴	30 mg/l 701 lbs/Day	45 mg/l 1051 lbs/Day	REPORT mg/l ¹ REPORT lbs/Day	2/WEEK	24-HOUR COMPOSITE
TSS ⁴	30 mg/l 701 lbs/Day	45 mg/l 1051 lbs/Day	REPORT mg/l ¹ REPORT lbs/Day	2/WEEK	24-HOUR COMPOSITE
pH RANGE ¹	6.5 - 8.3 SU SEE PERMIT PAGE 9 OF 15, PARAGRAPH I.A.3.b.			1/DAY	GRAB
TOTAL CHLORINE RESIDUAL ⁵ April 1 -October 31	0.025 mg/l	*****	0.044 mg/l	1/DAY	GRAB
FECAL COLIFORM BACTERIA ^{1,5,6} April 1 -October 31	200 CFU/100ml	*****	400 CFU/100 ml	2/WEEK	GRAB

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A.1. During the period beginning the effective date and lasting until the plant upgrade and design flow reduction or permit expiration, the permittee is authorized to discharge from outfall serial number 001 , treated effluent to the Otter River. Such discharges shall be limited and monitored as specified below.					
<u>EFFLUENT CHARACTERISTIC</u>			<u>MONITORING REQUIREMENTS</u>		
<u>PARAMETER</u>	<u>AVERAGE MONTHLY</u>	<u>AVERAGE WEEKLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE² TYPE</u>
AMMONIA NITROGEN ¹² November 1 - May 31 June 1 - October 31	5.6 mg/l 2.7 mg/l	***** *****	12.9 mg/l 12.9 mg/l	1/WEEK	24-HOUR COMPOSITE
TOTAL KJELDAHL NITROGEN	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
TOTAL NITRITE	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
TOTAL NITRATE	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
PHOSPHORUS, TOTAL ¹² April 1 - October 31	0.2 mg/l	*****	REPORT mg/l	2/WEEK	24-HOUR COMPOSITE
PHOSPHORUS, TOTAL ¹² November 1 - March 31	1.0 mg/l	*****	REPORT mg/l	1/WEEK	24-HOUR COMPOSITE
COPPER, TOTAL	28 ug/l 0.7 lbs/Day	***** *****	44 ug/l 1.0 lbs/Day	1/MONTH	24-HOUR COMPOSITE
ALUMINUM, TOTAL	200 ug/l 4.7 lbs/Day	***** *****	REPORT ug/l REPORT lbs/Day	1/MONTH	24-HOUR COMPOSITE
WHOLE EFFLUENT TOXICITY SEE FOOTNOTES 7, 8, 9, and 11	Acute LC ₅₀ ≥ 100% Chronic C-NOEC ≥ 42 %			1/QUARTER	24-HOUR COMPOSITE

PART I

A.2. During the period beginning with completion of the plant upgrade* and design flow reduction through to permit expiration, the permittee is authorized to discharge from outfall serial number **001**, treated effluent to the Otter River. Such discharges shall be limited and monitored as specified below.

EFFLUENT CHARACTERISTICMONITORING REQUIREMENTS

<u>PARAMETER</u>	<u>AVERAGE MONTHLY</u>	<u>AVERAGE WEEKLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE² TYPE</u>
FLOW ³	0.6 MGD	*****	REPORT MGD	CONTINUOUS	RECORDER
FLOW ³	REPORT MGD	*****	REPORT MGD	CONTINUOUS	RECORDER
BOD ₅ ⁴	30 mg/l 150 lbs/Day	45 mg/l 225 lbs/Day	REPORT mg/l ¹ REPORT lbs/Day	2/WEEK	24-HOUR COMPOSITE
TSS ⁴	30 mg/l 150 lbs/Day	45 mg/l 225 lbs/Day	REPORT mg/l ¹ REPORT lbs/Day	2/WEEK	24-HOUR COMPOSITE
pH RANGE ¹	6.5 - 8.3 SU SEE PERMIT PAGE 9 OF 15, PARAGRAPH I.A.3.b.			1/DAY	GRAB
FECAL COLIFORM BACTERIA ^{1,5} April 1 -October 31	200 CFU/100ml	*****	400 CFU/100 ml	3/WEEK	GRAB

* The Permittee shall notify both EPA and DEP 60 days prior commencing operation of the up-graded facility. The limits found on Pages 4 and 5 of this permit shall apply beginning with the first full calender month after commencing operation of the up-graded facility.

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A.2. During the period beginning with completion of the plant upgrade and design flow reduction through to permit expiration, the permittee is authorized to discharge from outfall serial number 001 , treated effluent to the Otter River. Such discharges shall be limited and monitored as specified below. .					
<u>EFFLUENT CHARACTERISTIC</u>			<u>MONITORING REQUIREMENTS</u>		
<u>PARAMETER</u>	<u>AVERAGE MONTHLY</u>	<u>AVERAGE WEEKLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE² TYPE</u>
AMMONIA NITROGEN ¹² November 1- May 31 June 1 - October 31	17.1 mg/l 8.1 mg/l	***** *****	39.3 mg/l 39.3 mg/l	1/WEEK	24-HOUR COMPOSITE
TOTAL KJELDAHL NITROGEN	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
TOTAL NITRITE	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
TOTAL NITRATE	REPORT mg/l	*****	REPORT mg/l	1/QUARTER	24-HOUR COMPOSITE
PHOSPHORUS, TOTAL ¹² April 1 - October 31	0.2 mg/l	*****	REPORT mg/l	2/WEEK	24-HOUR COMPOSITE
PHOSPHORUS, TOTAL ¹² November 1- March 31	1.0 mg/l	*****	REPORT mg/l	1/WEEK	24-HOUR COMPOSITE
ALUMINUM, TOTAL ¹⁰	REPORT ug/l	*****	REPORT ug/l	1/MONTH	24-HOUR COMPOSITE
COPPER, TOTAL	72 ug/l 0.36 lbs/Day	***** *****	109 ug/l 0.55 lbs/Day	1/MONTH	24-HOUR COMPOSITE
WHOLE EFFLUENT TOXICITY SEE FOOTNOTES 7, 8, 9, and 11	Acute LC ₅₀ ≥ 100% Chronic C-NOEC ≥ 14 %			1/QUARTER	24-HOUR COMPOSITE

Footnotes:

1. Required for State Certification.
2. Required effluent samples shall be collected from the following locations:

Prior to completion of the plant upgrade	
Parameter	Sampling Location
Flow	(Influent) Domestic clarifier outfall
BOD, TSS	(Influent) Domestic clarifier outfall (Effluent) Sampler in River Building
Ammonia, Total Phosphorus, pH, Fecal Coliform, Total Aluminum, Total Copper	(Effluent) Sampler in River Building
TRC,	(Effluent) Sampler in River Building
Whole Effluent Toxicity (WET)	(Effluent) Sampler in River Building (Diluent) Otter River up-stream of POTW

After completion of the plant upgrade	
Parameter	Sampling Location
Flow	(Influent) Prior to Complete Headworks Plant
BOD, TSS	(Influent) Prior to Complete Headworks Plant (Effluent) From the main effluent line following UV Disinfection
Ammonia, Total Phosphorus, pH, Fecal Coliform, Total Aluminum, Total Copper	(Effluent) From the main effluent line following UV Disinfection
Whole Effluent Toxicity (WET)	(Effluent) From the main effluent line following UV Disinfection (Diluent) Otter River up-stream of POTW

Any change in sampling location must be reviewed and approved in writing by EPA and MADEP. All samples shall be tested using the analytical methods found in 40 CFR §136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR §136. All samples shall be 24 hour composites unless specified as a grab sample in 40 CFR §136.

All sampling shall be representative of the effluent that is discharged through outfall 001. A routine sampling program shall be developed in which samples are taken at the same location, same time and same days of every month. Any deviations from the routine sampling program shall be documented in correspondence appended to the applicable discharge monitoring report that is submitted to EPA. The permittee shall submit the results to EPA of any additional testing done to that required herein if it is conducted in accordance with EPA approved methods, consistent with the provisions of 40 CFR §122.41(l)(4)(ii)

3. This is an annual average limit, which shall be reported as a rolling average. The first value will be calculated using the monthly average flow for the first full month ending after the effective date of the permit and the eleven previous monthly average flows. Each subsequent month's DMR will report the annual average flow that is calculated from that month and the previous 11 months. The monthly average and maximum daily flows for each month shall also be reported.
4. Sampling required for influent and effluent.
5. Fecal coliform discharges shall not exceed a monthly geometric mean of 200 colony forming units per (cfu) 100 ml, nor shall they exceed 400 cfu per 100 ml as a daily maximum.
6. Fecal coliform monitoring shall be conducted concurrently with the TRC sampling.
7. The permittee shall conduct chronic (and modified acute) toxicity tests four times per year. The chronic test may be used to calculate the acute LC_{50} at the 48 hour exposure interval. The permittee shall test the daphnid, Ceriodaphnia dubia, only. Toxicity test samples shall be collected during the second week of the months of January, April, July and October. The test results shall be submitted by the last day of the month following the completion of the test. The results are due February 28th, May 31st, August 31st, and November 30th, respectively. The tests must be performed in accordance with test procedures and protocols specified in **Attachment A** of this permit.

Test Dates Second Week in	Submit Results By:	Test Species	Acute Limit LC ₅₀	Chronic Limit C-NOEC
January April July October	February 28 th May 31 st August 31 st November 30 th	<u>Ceriodaphnia dubia</u> (daphnid) See Attachment A	≥ 100%	≥ 42% (at 2.8 MGD) ≥ 14% (at 0.6 MGD)

After submitting **one year** and a **minimum of four** consecutive sets of WET test results in one year, all of which demonstrate compliance with the WET permit limits, the permittee may request a reduction in the WET testing requirements. The permittee is required to continue testing at the frequency specified in the permit until notice is received by certified mail from the EPA that the WET testing requirement has been changed.

8. The LC₅₀ is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore, a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a 50% mortality rate.
9. C-NOEC (chronic-no observed effect concentration) is defined as the highest concentration of toxicant or effluent to which organisms are exposed in a life cycle or partial life cycle test which causes no adverse effect on growth, survival, or reproduction at a specific time of observation as determined from hypothesis testing where the test results exhibit a linear dose-response relationship. However, where the test results do not exhibit a linear dose-response relationship, the permittee must report the lowest concentration where there is no observable effect.

The "42% or greater" limit is defined as a sample which is composed of 42% (or greater) effluent, the remainder being dilution water. This is a maximum daily limit derived as a percentage of the inverse of the dilution factor of 2.3. The "14% or greater" limit is defined as a sample which is composed of 14% (or greater) effluent, the remainder being dilution water. This is a maximum daily limit derived as a percentage of the inverse of the dilution factor of 7.0.

10. The permittee may submit the results of total aluminum monitoring conducted as part of the quarterly whole effluent tonicity testing to satisfy this requirement.
11. If toxicity test(s) using receiving water as diluent show the receiving water to be toxic or unreliable, the permittee shall follow procedures outlined in **Attachment A Section IV., DILUTION WATER** in order to obtain permission to use an alternate dilution water.

In lieu of individual approvals for alternate dilution water required in **Attachment A**, EPA-New England has developed a Self-Implementing Alternative Dilution Water Guidance document (called “Guidance Document”) which may be used to obtain automatic approval of an alternate dilution water, including the appropriate species for use with that water. If this Guidance document is revoked, the permittee shall revert to obtaining approval as outlined in **Attachment A**.

The “Guidance Document” has been sent to all permittees with their annual set of DMRs and Revised Updated Instructions for Completing EPA’s Pre-Printed NPDES Discharge Monitoring Report (DMR) Form 3320-1 and is not intended as a direct attachment to this permit. Any modification or revocation to this “Guidance Document” will be transmitted to the permittees as part of the annual DMR instruction package. However, at any time, the permittee may choose to contact EPA-New England directly using the approach outlined in **Attachment A**.

12. See compliance schedule in Section F of this permit.

Part I.A.3.

- a. The discharge shall not cause a violation of the water quality standards of the receiving waters.
- b. The pH of the effluent shall not be less than 6.5 nor greater than 8.3 at any time.
- c. The discharge shall not cause objectionable discoloration of the receiving waters.
- d. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.
- e. The permittee's treatment facility shall maintain a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand. The percent removal shall be based on monthly average values.
- f. The permittee shall minimize the use of chlorine while maintaining adequate bacterial control.

Part I.A.4. All POTWs must provide adequate notice to the Director of the following:

- a. Any new introduction of pollutants into that POTW from an indirect discharger in a primary industry category discharging process water; and

- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- c. For purposes of this paragraph, adequate notice shall include information on:
 - (1) the quantity and quality of effluent introduced into the POTW; and
 - (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

Part I.B.1. Limitations for Industrial Users:

- a. Pollutants introduced into POTW's by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.

Part I.B.2. Toxics Control

- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
- b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

Part I.B.3. Numerical Effluent Limitations for Toxicants

EPA or DEP may use the results of the toxicity tests and chemical analyses conducted pursuant to this permit, as well as national water quality criteria developed pursuant to Section 304(a)(1) of the Clean Water Act (CWA), state water quality criteria, and any other appropriate information or data, to develop numerical effluent limitations for any pollutants, including but not limited to those pollutants listed in Appendix D of 40 CFR Part 122.

Part I.C. Unauthorized Discharges

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from outfall 001. Discharges of wastewater from any other point sources, including sanitary sewer overflows (SSOs) are not authorized by this permit and shall be reported in accordance with Section D.1.e. (1) of the General Requirements of this permit (Twenty-four hour reporting).

Part I.D. Operation and Maintenance of the Sewer System

Operation and maintenance of the sewer system shall be in compliance with the General Requirements of Part II and the following terms and conditions:

a. Maintenance Staff

The permittee shall provide an adequate staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit.

b. Preventative Maintenance Program

The permittee shall maintain an ongoing preventative maintenance program to prevent overflows and bypasses caused by malfunctions or failures of the sewer system infrastructure. The program shall include an inspection program designed to identify all potential and actual unauthorized discharges.

c. Infiltration/Inflow Control Plan:

The permittee shall develop and implement a plan to control infiltration and inflow (I/I) to the separate sewer system. **The plan shall be submitted to EPA and MA DEP within six months of the effective date of this permit** (see page 1 of this permit for the effective date) and shall describe the permittee's program for preventing infiltration/inflow related effluent limit violations, and all unauthorized discharges of wastewater, including overflows and by-passes due to excessive infiltration/inflow.

The plan shall include:

- An ongoing program to identify and remove sources of infiltration and inflow. The program shall include the necessary funding level and the source(s) of funding.
- An inflow identification and control program that focuses on the disconnection and redirection of illegal sump pumps and roof down spouts. Priority should be given to removal of public and private inflow sources that are upstream from, and potentially contribute to, known areas of sewer system backups and/or overflows.
- Identification and prioritization of areas that will provide increased aquifer recharge as the result of reduction/elimination of infiltration and inflow to the system.
- An educational public outreach program for all aspects of I/I control,

particularly private inflow.

- The permittee shall require, through appropriate agreements, that all member communities develop and implement infiltration and inflow control plans sufficient to ensure that high flows do not cause or contribute to a violation of the permittee's effluent limitations, or cause overflows from the permittee's collection system.

Reporting Requirements:

A summary report of all actions taken to minimize I/I during the previous calendar year shall be submitted to EPA and the MA DEP annually, by the anniversary date of the effective date of this permit. The summary report shall, at a minimum, include:

- A map and a description of inspection and maintenance activities conducted and corrective actions taken during the previous year.
- Expenditures for any infiltration/inflow related maintenance activities and corrective actions taken during the previous year.
- A map with areas identified for I/I-related investigation/action in the coming year.
- A calculation of the annual average I/I, the maximum month I/I for the reporting year.
- A report of any infiltration/inflow related corrective actions taken as a result of unauthorized discharges reported pursuant to 314 CMR 3.19(20) and reported pursuant to the Unauthorized Discharges section of this permit.

d. Alternate Power Source

In order to maintain compliance with the terms and conditions of this permit, the permittee shall continue to provide an alternate power source with which to sufficiently operate its treatment works (as defined at 40 CFR §122.2).

Part I.E. Sludge Conditions

1. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices and with the CWA Section 405(d) technical standards.

2. The permittee shall comply with the more stringent of either the state or federal (40 CFR part 503), requirements.
3. The requirements and technical standards of 40 CFR part 503 apply to facilities which perform one or more of the following use or disposal practices:
 - a. Land application - the use of sewage sludge to condition or fertilize the soil
 - b. Surface disposal - the placement of sewage sludge in a sludge only landfill
 - c. Sewage sludge incineration in a sludge only incinerator
4. The 40 CFR part 503 conditions do not apply to facilities which place sludge within a municipal solid waste landfill. These conditions also do not apply to facilities which do not dispose of sewage sludge during the life of the permit but rather treat the sludge (e.g. lagoons- reed beds), or are otherwise excluded under 40 CFR 503.6.
5. The permittee shall comply with the 40 CFR, Part 503 regulations. A compliance guidance document is attached to help determine appropriate conditions. Appropriate conditions contain the following elements:
 - General requirements
 - Pollutant limitations
 - Operational Standards (pathogen reduction requirements and vector attraction reduction requirements)
 - Management practices
 - Record keeping
 - Monitoring
 - Reporting

Depending upon the quality of material produced by a facility, all conditions may not apply to the facility.

6. The permittee shall monitor the pollutant concentrations, pathogen reduction and vector attraction reduction at the following frequency. This frequency is based upon the volume of sewage sludge generated at the facility in dry metric tons per year:

less than 290	1/ year
290 to less than 1500	1 /quarter
1500 to less than 15000	6 /year
15000 +	1 /month

7. The permittee shall sample the sewage sludge using the procedures detailed in 40 CFR 503.8.

8. The permittee shall **submit an annual report containing the information specified in the regulations by February 19**. Reports shall be submitted to the address contained in the reporting section of the permit. Sludge monitoring is not required by the permittee when the permittee is not responsible for the ultimate sludge disposal.

In such cases, the permittee is required only to **submit an annual report by February 19** containing the following information:

- Name and address of contractor responsible for sludge disposal
- Quantity of sludge in dry metric tons removed from the facility by the sludge contractor

Part I.F. Compliance Schedules

For eighteen (18) months from the date of signature of this permit, the permittee is required to monitor only (without limit) for the following parameters; ammonia nitrogen, and total phosphorus. At the end of the eighteen month period, the limits shall be in effect. During the term of the compliance schedule, the permittee is required to maximize the performance of the treatment plant to achieve the lowest discharge of the above listed pollutants possible. **The permittee shall report progress toward achieving full compliance with above listed pollutants twelve (12) months from the date the permit is signed.**

Part I.G. Monitoring and Reporting

1. Reporting

Monitoring results obtained during each calendar month shall be summarized and **reported on Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the following month.**

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director and the State at the following addresses:

Environmental Protection Agency
Water Technical Unit (SEW) - P.O. Box 8127
Boston, Massachusetts 02114

The State Agency is:

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
Central Regional Office
627 Main Street
Worcester, MA 01608

Signed and dated Discharge Monitoring Report Forms and toxicity test reports required by this permit shall also be submitted to the State at:

Massachusetts Department of Environmental Protection
Division of Watershed Management
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

Part I.H. State Permit Conditions

This discharge permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) under federal and state law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the DEP pursuant to M.G.L. Chap.21, §43.

Each agency shall have the independent right to enforce the terms and conditions of this permit. Any modification, suspension or revocation of this permit shall be effective only with respect to the agency taking such action, and shall not affect the validity or status of this permit as issued by the other agency, unless and until each agency has concurred in writing with such modification, suspension or revocation. In the event this permit or any portion of this permit is declared, invalid, illegal or otherwise issued in violation of state law such permit shall remain in full force and effect under federal law as an NPDES permit issued by the U.S. Environmental Protection Agency. In the event this permit or any portion of this permit is declared invalid, illegal or otherwise issued in violation of federal law, this permit shall remain in full force and effect under state law as a permit issued by the Commonwealth of Massachusetts.